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Enhancing immunogenicity by coupling immunogen to serum albumin-binding protein - useful for preparing improved vaccines, e.g. against Respiratory Syncytial Virus

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9614416	A1	19960517	WO 95FR1466	A	19951107	199625 B
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Cited Patents: 07Jnl.Ref; EP 327522; US 4415491; WO 9116926; WO 9201471; WO 9306218

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ZA 9509419	A	97	A61K-000/00	
AU 9641202	A		C12N-015/31	Based on patent WO 9614416
EP 791064	A1	F	C12N-015/31	Based on patent WO 9614416
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BR 1100315	A3		C12N-015/64	
JP 10509311	W	101	C12N-015/09	Based on patent WO 9614416
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AU 712468	B		C12N-015/31	Previous Publ. patent AU 9641202 Based on patent WO 9614416
US 6149911	A		A61K-039/12	Based on patent WO 9614416

Abstract (Basic): WO 9614416 A

A method of enhancing the immunogenicity of an immunogen, antigen

or hapten, upon admin. to a host by whatever delivery means, the immunogen being covalently coupled to a polypeptide fragment (P) capable of specifically binding to mammalian serum albumin to form a complex, is new.

USE - The complexes and sequences encoding them are useful for preparing vaccines against bacteria, parasites or esp. viruses. The immunogen is pref. derived from a surface glycoprotein (e.g. haemagglutinin neuraminidase HN or fusion protein F) of hepatitis A, B or C virus, measles virus or parainfluenza virus 3. In particular, the immunogen is derived from amino acids 130-230 of Respiratory Syncytial Virus (RSV) sub-group A or B protein G (designated "G2A").

ADVANTAGE - Immunogenicity of an antigen or hapten is enhanced when covalently coupled to (P). In the specific case where immunogen G2A was fused to BB it was found that BB induces T helper memory cells leading the prodn. of anti-G2A antibodies by stimulated B cells.

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Title Terms: ENHANCE; IMMUNOGENIC; COUPLE; IMMUNOGENIC; SERUM; ALBUMIN; BIND; PROTEIN; USEFUL; PREPARATION; IMPROVE; VACCINE; RESPIRATION; VIRUS

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